1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).						
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.  In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.						
3.	This report contains indications relating to the following items:						
	Box No. I	Basis of the report					
	Вох №. П	Priority					
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	Box No. IV Lack of unity of invention						
			Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement				
	Box No. VI	Certain documents cited					
	Box No. VII Certain defects in the international application						
	Box No. VIII	Certain observations on the	e international application				
4.	The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).						
			Date of issuance of this report 26 June 2006 (26.06.2006)				
The International Bureau of WIPO  34, chemin des Colombettes			Authorized officer Yoshiko Kuwahara				
1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70			e-mail: pt07@wipo.int				
			<u> </u>				

## PATENT COOPERATION TREATY

From the	NAL SEARCHING AUTHO	RITY		TANS
То:				PCT PCT
				RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY
				(PCT Rule 43bis.1)
			Date of mailing (day/month/year)	
Applicant's or agent's file reference			FOR FURTHER ACTION	
K1057			See paragraph 2 below	
International ap	oplication No.	International filing date (	(day/month/year) Priority date (day/month/year)	
PCT/JP	2004/013123	09.09.2004		10.09.2003
	atent Classification (IPC) or bot	in national classification at		
Applicant NTN CO	RPORATION			
1. This	opinion contains indications rel	ating to the following items		
	Box No. I Basis of the	•	-	
ī	Box No. II Priority	о оримон		
一		ishment of oninion with an		one other and industrial analysis bilitary
, F			gard to hoverry, inventi	ve step and industrial applicability
$\boxtimes$	Box No. V Reasoned s	unity of invention  ed statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial statement.		
	Box No. VI Certain do	cuments cited		
	Box No. VII Certain def	ects in the international app	olication	
	Box No. VIII Certain obs	servations on the internation	nal application	
If a d Intern than t	FURTHER ACTION  If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.			
writte PCT/	n reply together, where appro ISA/220 or before the expiration	priate, with amendments, n of 22 months from the pri	before the expiration	, the applicant is invited to submit to the IPEA a of 3 months from the date of mailing of Form expires later.
Por fi	arther options, see Form PCT/IS	SA/220.		
3. For fu	uther details, see notes to Form	PCT/ISA/220.		
Name and mail	ing address of the ISA/JP		Authorized officer	
Facsimile No.			Telephone No	
- GODINAIO 11U.			Telephone No.	

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/013123

Box	No. I	p. I Basis of this opinion	
1.		Vith regard to the language, this opinion has been established on the basis of the international applied, unless otherwise indicated under this item.	plication in the language in which it was
ı		This opinion has been established on the basis of a translation from the original language into	the following language
		, which is the language of a translation furnished for the	purposes of international search (under
		Rule 12.3 and 23.1(b)).	
2.		Vith regard to any nucleotide and/or amino acid sequence disclosed in the international appropriate appropriate the international appropriate the propriate of the propriate and the propriate propriate and the propriate propria	plication and necessary to the claimed
	a.	a. type of material	
		a sequence listing	
		table(s) related to the sequence listing	
	b.	b. format of material	
		in written format	
		in computer readable form	
	c.		
		contained in the international application as filed.	
		filed together with the international application in computer readable form.	
		furnished subsequently to this Authority for the purposes of search.	
3.		In addition, in the case that more than one version or copy of a sequence listing and/or ta furnished, the required statements that the information in the subsequent or additional copie filed or does not go beyond the application as filed, as appropriate, were furnished.	
4.	Add	additional comments:	
ŀ			
		•	
1			

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/013123

Box			le 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; porting such statement	
1.	Statement			
	Novelty (N)	Claims	1-10	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-10	NO
	Industrial applicability	(IA) Claims	1-10	YES
		Claims		NO

## 2. Citations and explanations:

The inventions described in claims 1-2, 4-5, and 7-8 do not appear to involve an inventive step based on document 1 (JP 11-129703 A (NSK Ltd.) 18 May 1999, claims, Figs. 9-10, & EP 854303 A2 & JP 10-196661 A & JP 11-5404 A & US 6280096 B1 & US 2001/0046339 A1 & US 6422758 B1 & US 2002/0146185 A1 & EP 1312821 A2 & EP 1314903 A2 & US 2003/0103705 A1 & EP 1319854 A2) cited in the ISR and document 2 (JP 5-277615 A (NTN Corp.) 26 October 1993, paragraph 0012, Fig. 3, (Family: none)) cited in the ISR. Setting the hub ring (inner member) described in document 1 at the fiber flow angle to the orbital plane described in document 2 would be obvious to a person skilled in the art.

The inventions described in claims 3, 6, and 9-10 do not appear to involve an inventive step based on document 3 (JP 2003-97569A (NSK Ltd) 03 April 2003, claims, paragraph 0021, Fig. 1, (Family: none)) cited in the ISR and document 2 cited in the ISR. Setting the outer ring (outer member) described in document 3 at the fiber flow angle to the orbital plane described in document 2 would be obvious to a person skilled in the art.